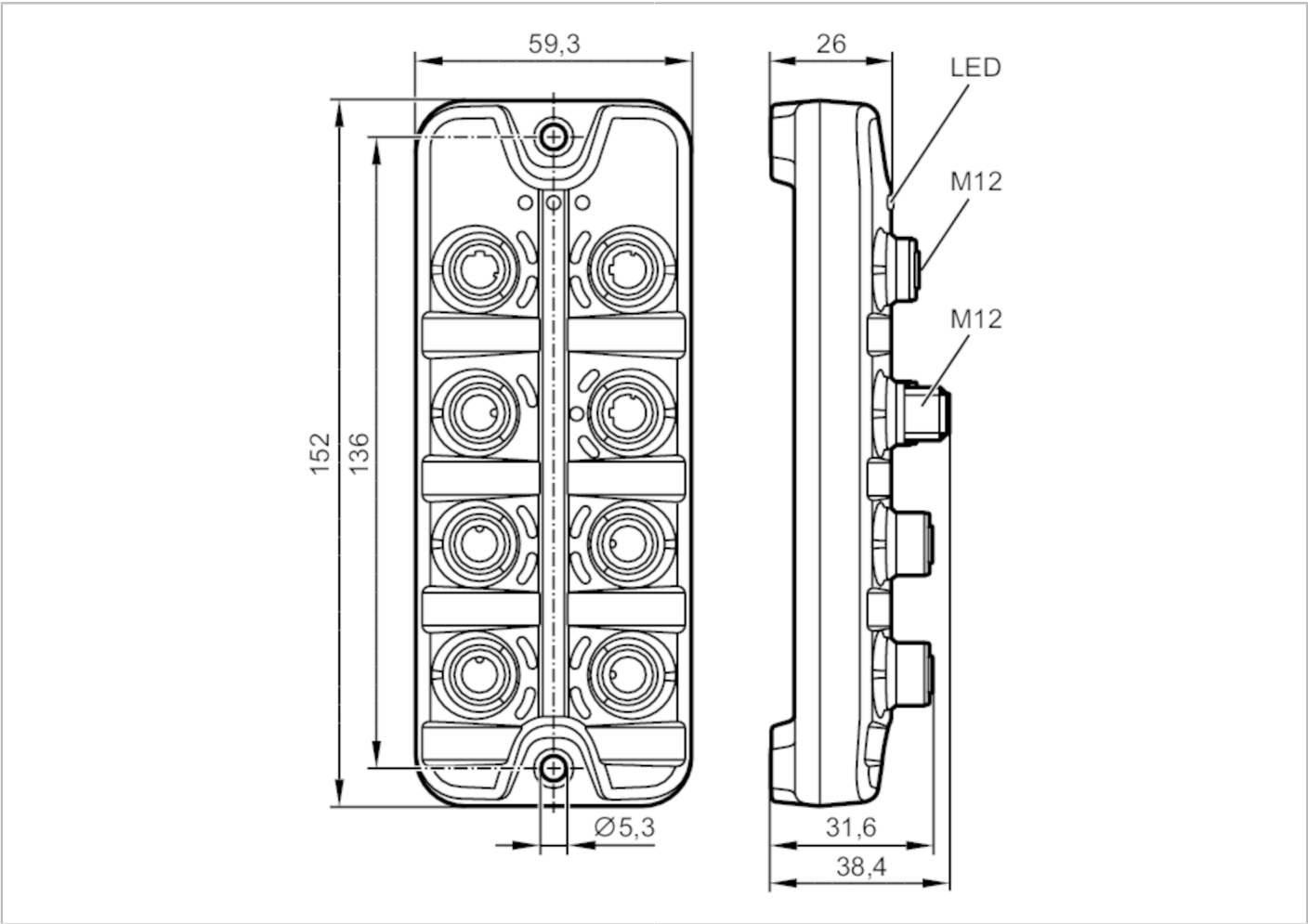


# AL1321



## IO-Link master with EtherNet/IP interface

IO-Link Master DL EIP 4P IP69K



| Application                        |                                                           |
|------------------------------------|-----------------------------------------------------------|
| Application                        | hygienic systems; I/O modules for field applications      |
| Daisy-chain function               | fieldbus interface                                        |
| Electrical data                    |                                                           |
| Operating voltage [V]              | 20...28 DC; (US; to SELV/PELV)                            |
| Current consumption [mA]           | 300...3900; (US)                                          |
| Protection class                   | III                                                       |
| sensor supply US                   |                                                           |
| Max. current load total [A]        | 3.6                                                       |
| Inputs / outputs                   |                                                           |
| Total number of inputs and outputs | 8; (configurable)                                         |
| Number of inputs and outputs       | Number of digital inputs: 8; Number of digital outputs: 4 |



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| Inputs                                          |                                                                                       |
|-------------------------------------------------|---------------------------------------------------------------------------------------|
| Number of digital inputs                        | 8; (IO-Link Port Class A: 4 x 2)                                                      |
| Switching level high [V]                        | 11...28                                                                               |
| Switching level low [V]                         | 0...5                                                                                 |
| Digital inputs protected against short circuits | yes                                                                                   |
| Outputs                                         |                                                                                       |
| Number of digital outputs                       | 4; (IO-Link Port Class A: 4 x 1)                                                      |
| Max. current load per output [mA]               | 200                                                                                   |
| Short-circuit proof                             | yes                                                                                   |
| Interfaces                                      |                                                                                       |
| Communication interface                         | Ethernet; IO-Link                                                                     |
| Addition                                        | Supported network topologies; line; ring; DLR                                         |
| Ethernet - EtherNet/IP                          |                                                                                       |
| Transmission standard                           | 10Base-T; 100Base-TX                                                                  |
| Transmission rate                               | 10; 100                                                                               |
| Protocol                                        | EtherNet/IP                                                                           |
| Factory settings                                | IP address: 192.168.1.250                                                             |
|                                                 | subnet mask: 255.255.255.255                                                          |
|                                                 | gateway IP address: 0.0.0.0                                                           |
|                                                 | MAC address: see type label                                                           |
| Ethernet - Internet of Things                   |                                                                                       |
| Transmission standard                           | 10Base-T; 100Base-TX                                                                  |
| Transmission rate                               | 10; 100                                                                               |
| Protocol                                        | TCP/IP JSON                                                                           |
| Factory settings                                | IP address: 169.254.x.x                                                               |
|                                                 | subnet mask: 255.255.0.0                                                              |
|                                                 | gateway IP address: 0.0.0.0                                                           |
|                                                 | MAC address: see type label                                                           |
| IO-Link Master                                  |                                                                                       |
| Transmission type                               | COM 1 / COM 2 / COM 3                                                                 |
| IO-Link revision                                | 1.1                                                                                   |
| Number of ports class A                         | 4                                                                                     |
| Operating conditions                            |                                                                                       |
| Ambient temperature [°C]                        | -25...60                                                                              |
| Storage temperature [°C]                        | -25...85                                                                              |
| Max. relative air humidity [%]                  | 90                                                                                    |
| Protection                                      | IP 65; IP 66; IP 67; IP 69K; (operation with stainless steel protective caps: IP 69K) |
| Degree of soiling                               | 2                                                                                     |



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| Tests / approvals    |                           |  |
|----------------------|---------------------------|--|
| EMC                  | EN 61000-6-2              |  |
|                      | EN 61000-6-4              |  |
| Shock resistance     | DIN EN 60068-2-27         |  |
| Vibration resistance | DIN EN 60068-2-64 2009-04 |  |
|                      | DIN EN 60068-2-6 2008-10  |  |
| MTTF [years]         | 90                        |  |

| Mechanical data |                                                           |  |
|-----------------|-----------------------------------------------------------|--|
| Weight [g]      | 283.2                                                     |  |
| Materials       | housing: PA grey; socket: stainless steel (1.4404 / 316L) |  |

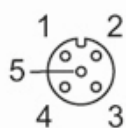
| Accessories            |                                                  |  |
|------------------------|--------------------------------------------------|--|
| Accessories (supplied) | Protective cap: 1 x M12, stainless steel, E12542 |  |

| Remarks       |                                                                |  |
|---------------|----------------------------------------------------------------|--|
| Remarks       | For further information please see the operating instructions. |  |
| Pack quantity | 1 pcs.                                                         |  |

| Electrical connection - Process connection |  |  |
|--------------------------------------------|--|--|
| IO-Link Port Class A X01...X04             |  |  |

|   |                          |
|---|--------------------------|
| 1 | Sensorversorgung (US) L+ |
| 2 | digital input            |
| 3 | Sensorversorgung (US) L- |
| 4 | C/Q IO-Link              |
| 5 | not used                 |

Connector: M12



| Electrical connection - voltage supply |  |  |
|----------------------------------------|--|--|
| X31                                    |  |  |

|   |                |
|---|----------------|
| 1 | + 24 V DC (US) |
| 2 | not used       |
| 3 | GND (US)       |
| 4 | not used       |

Connector: M12

# AL1321



## IO-Link master with EtherNet/IP interface

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### Electrical connection - Ethernet

#### EtherNet/IP X21, X22

|   |          |
|---|----------|
| 1 | TX +     |
| 2 | RX +     |
| 3 | TX -     |
| 4 | RX -     |
| 5 | not used |

#### IoT X23

|   |          |
|---|----------|
| 1 | TX +     |
| 2 | RX +     |
| 3 | TX -     |
| 4 | RX -     |
| 5 | not used |

Connector: M12

